

A microscopic image of nervous tissue, likely a histological section stained with hematoxylin and eosin (H&E). The image shows various cellular structures, including what appears to be a large, dark, irregularly shaped structure, possibly a neuron or a large cell body, and several smaller, lighter-colored structures that could be glial cells or other components of the nervous system. The overall color palette is dominated by shades of blue and white, with some darker, more textured areas.

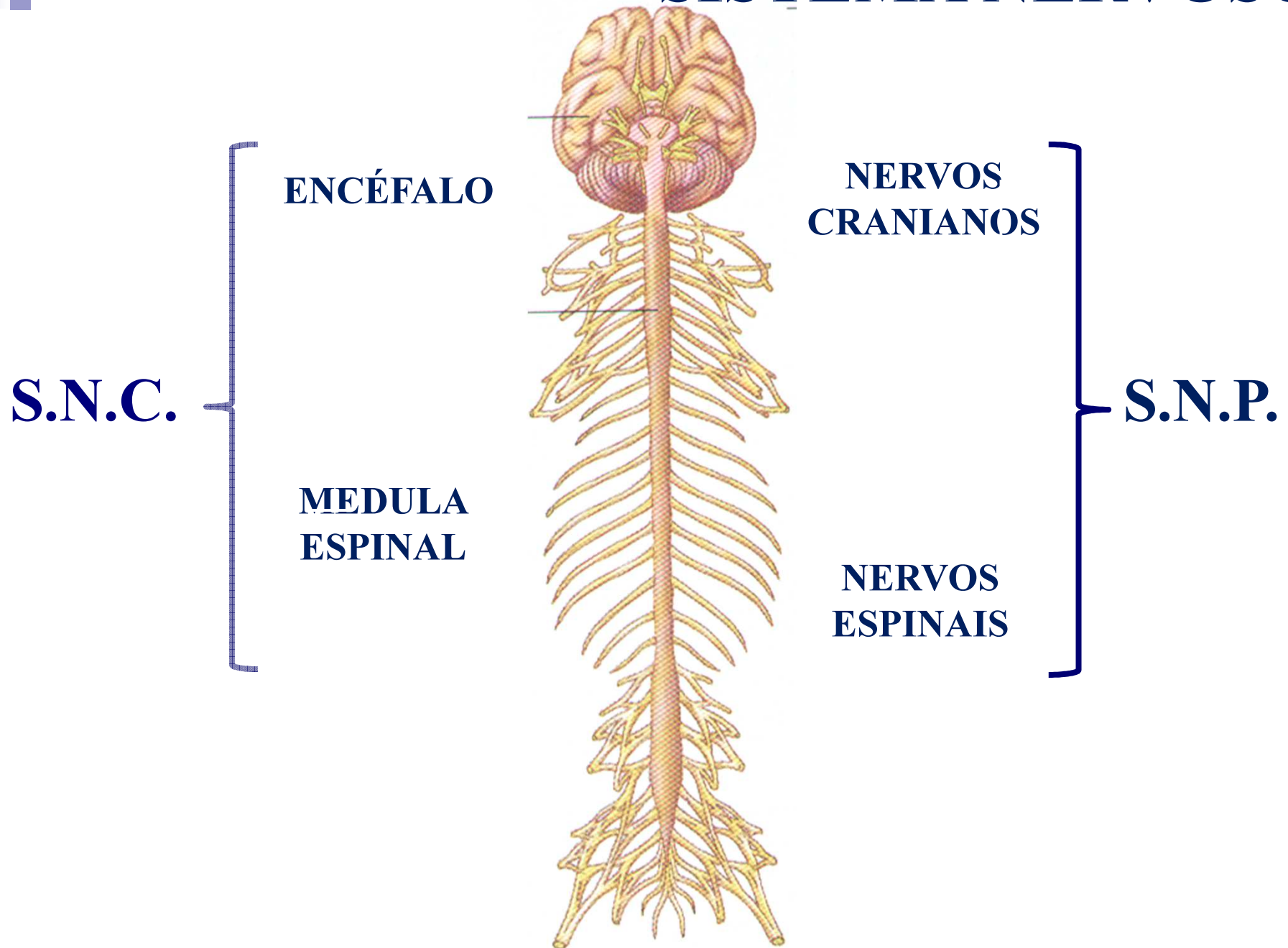
# HISTOLOGIA

**SISTEMA NERVOSO**

//

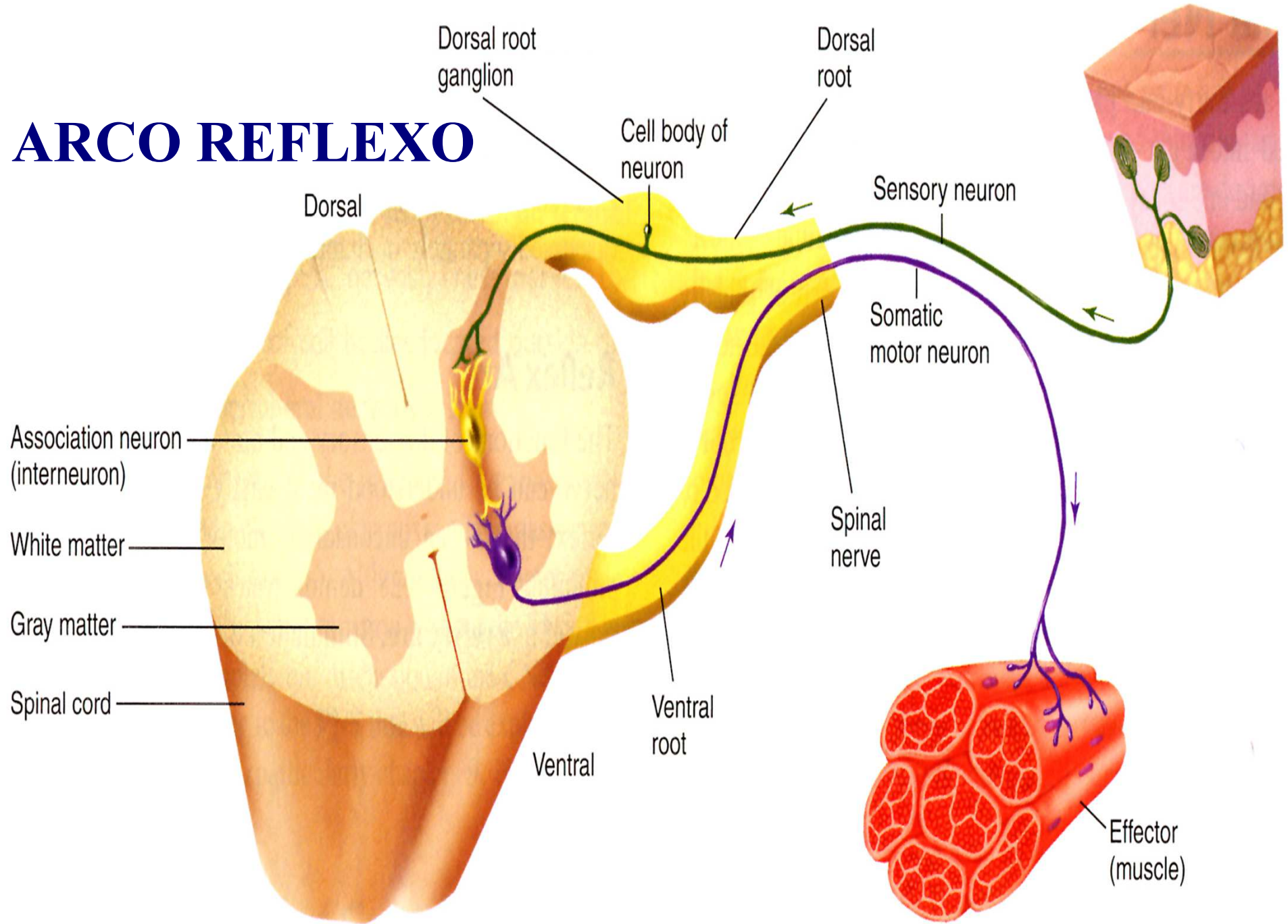
**TECIDO NERVOSO**

# SISTEMA NERVOSO

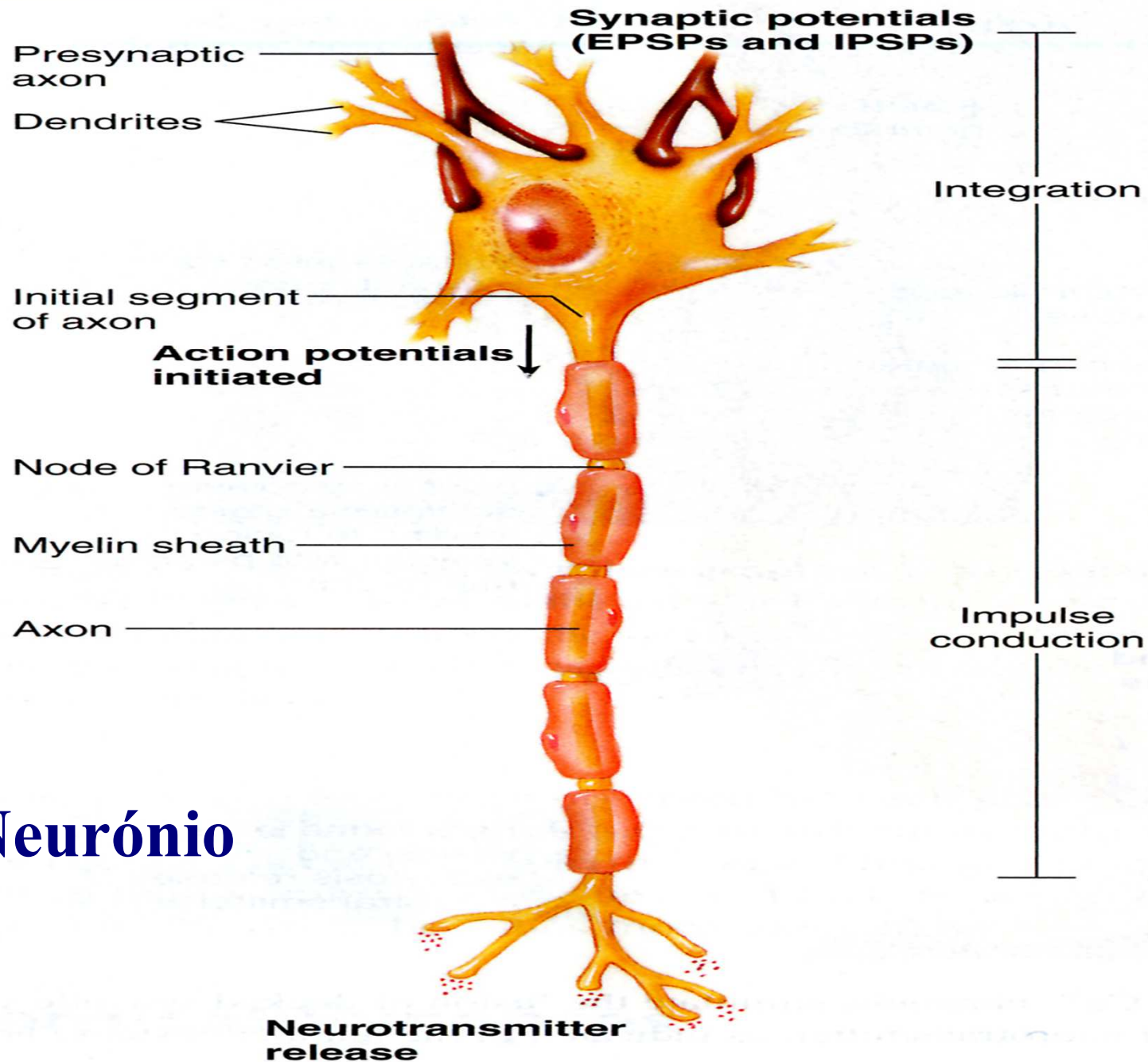




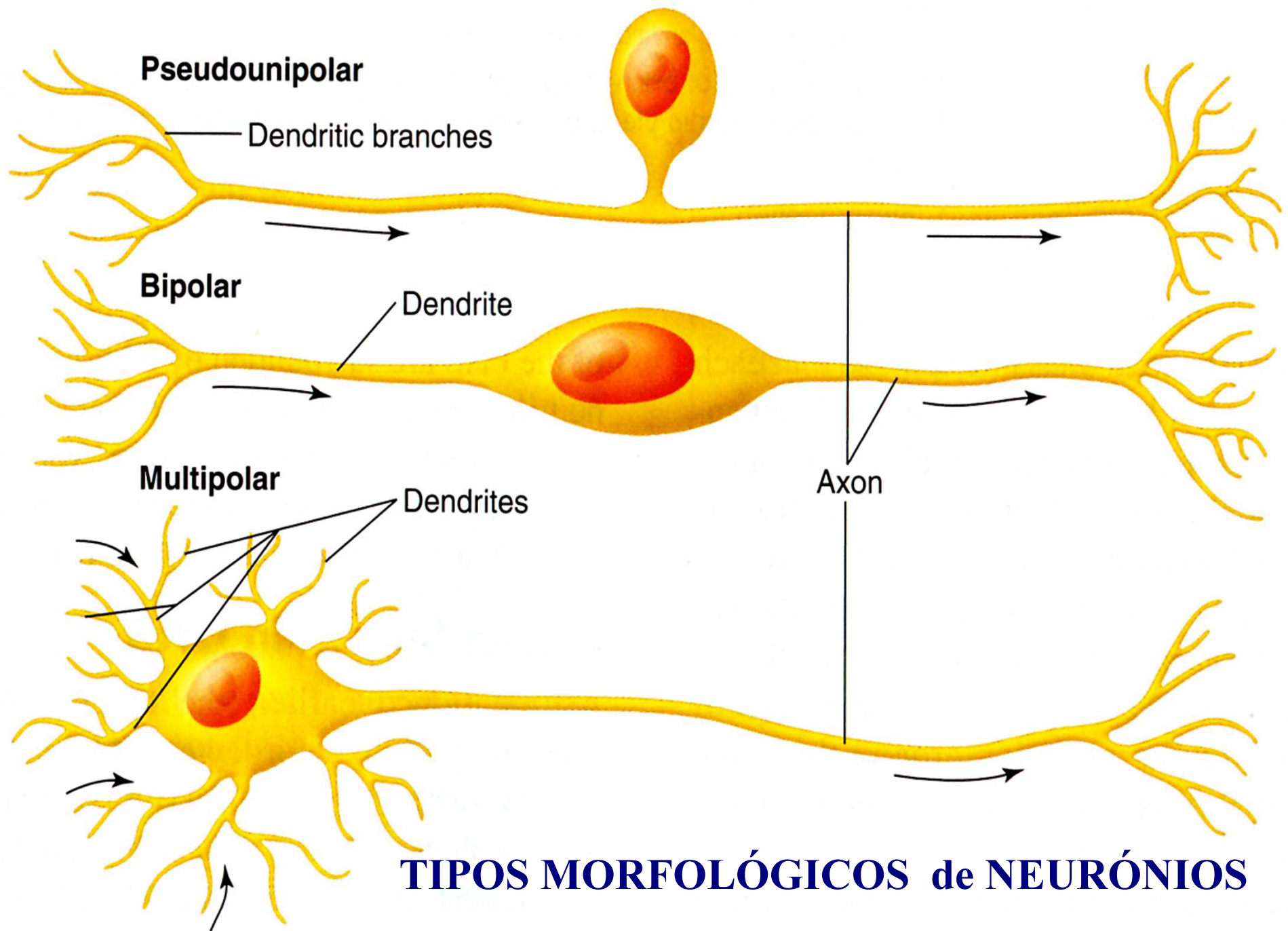
# ARCO REFLEXO



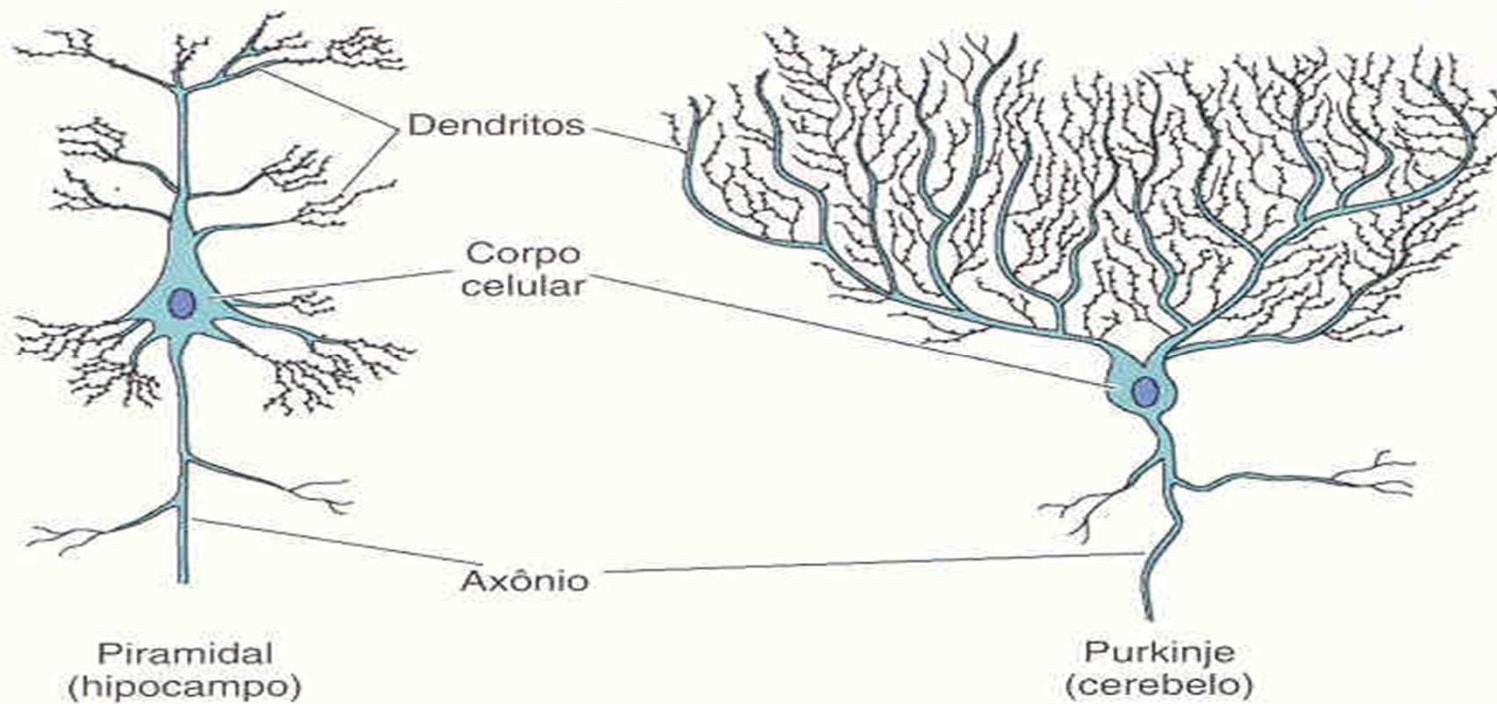
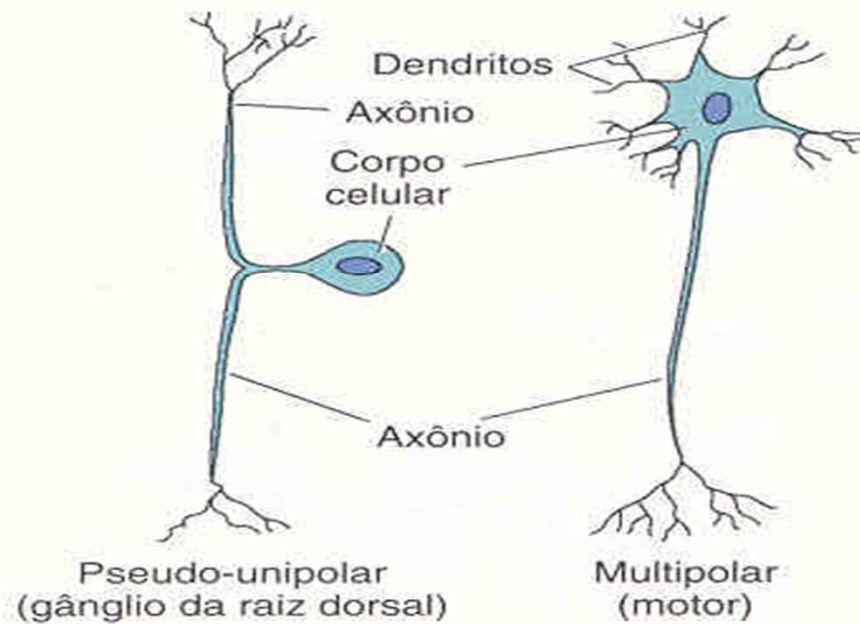
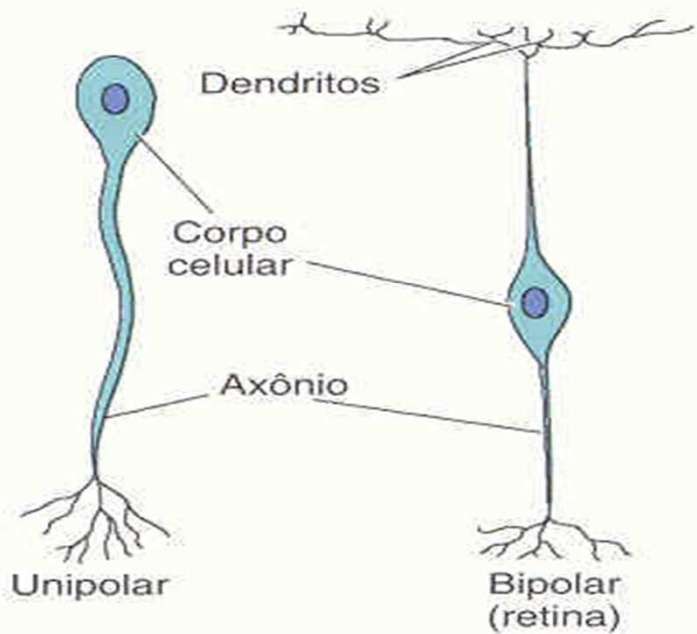
## O Neurónio







# Tipos de Neurónios





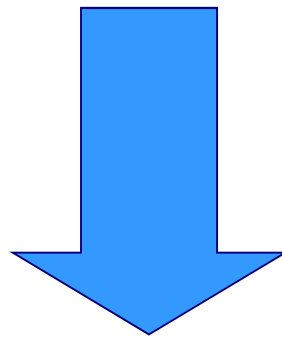
# ORIGEM DA MIELINA

Os axónios podem revestidos por uma baínha lipo-proteica:

## MIELINA

*Oligodendrócitos* (S.N.C.)

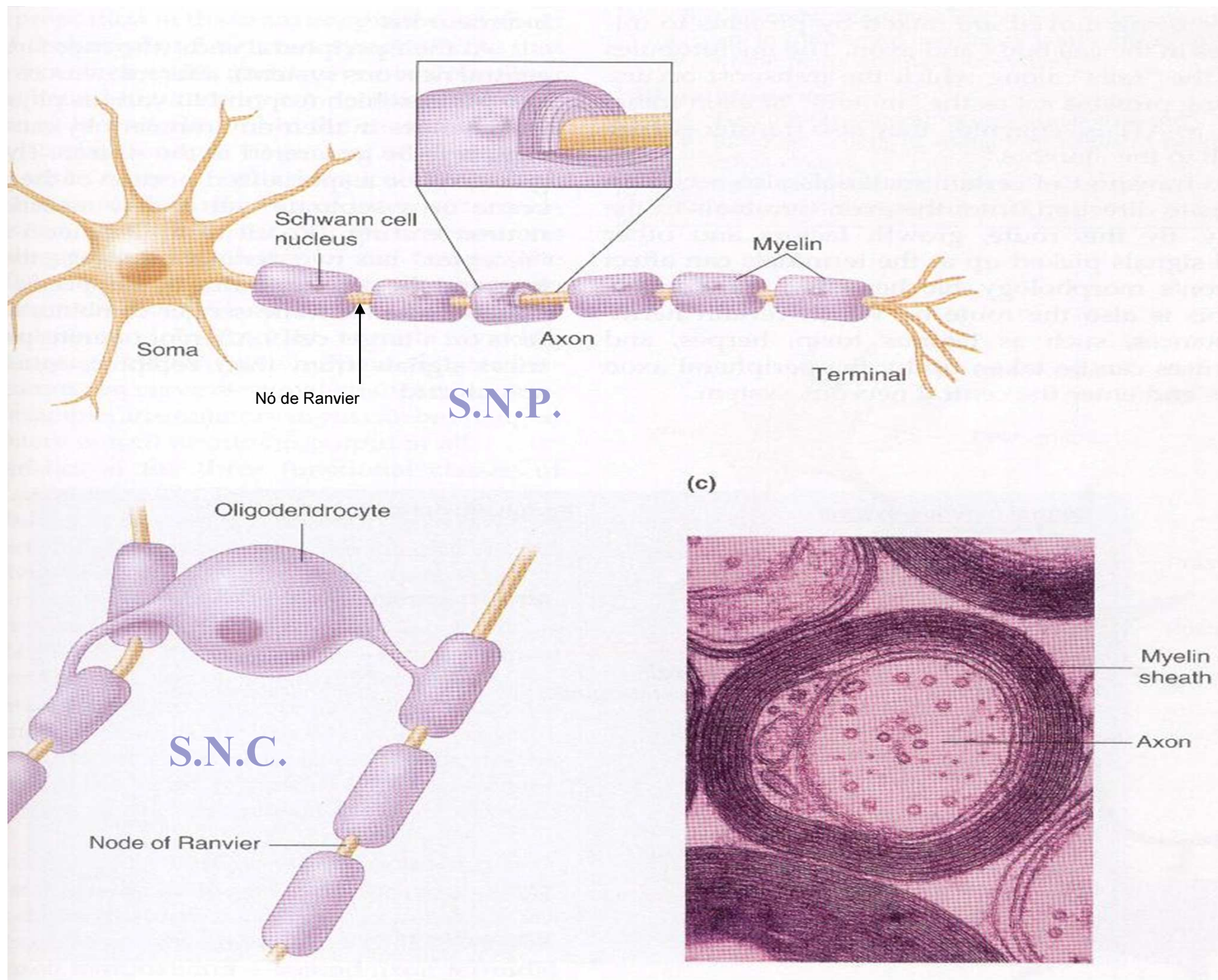
*Células de Schwann* (S.N.P.)



**Neurónios mielizados**

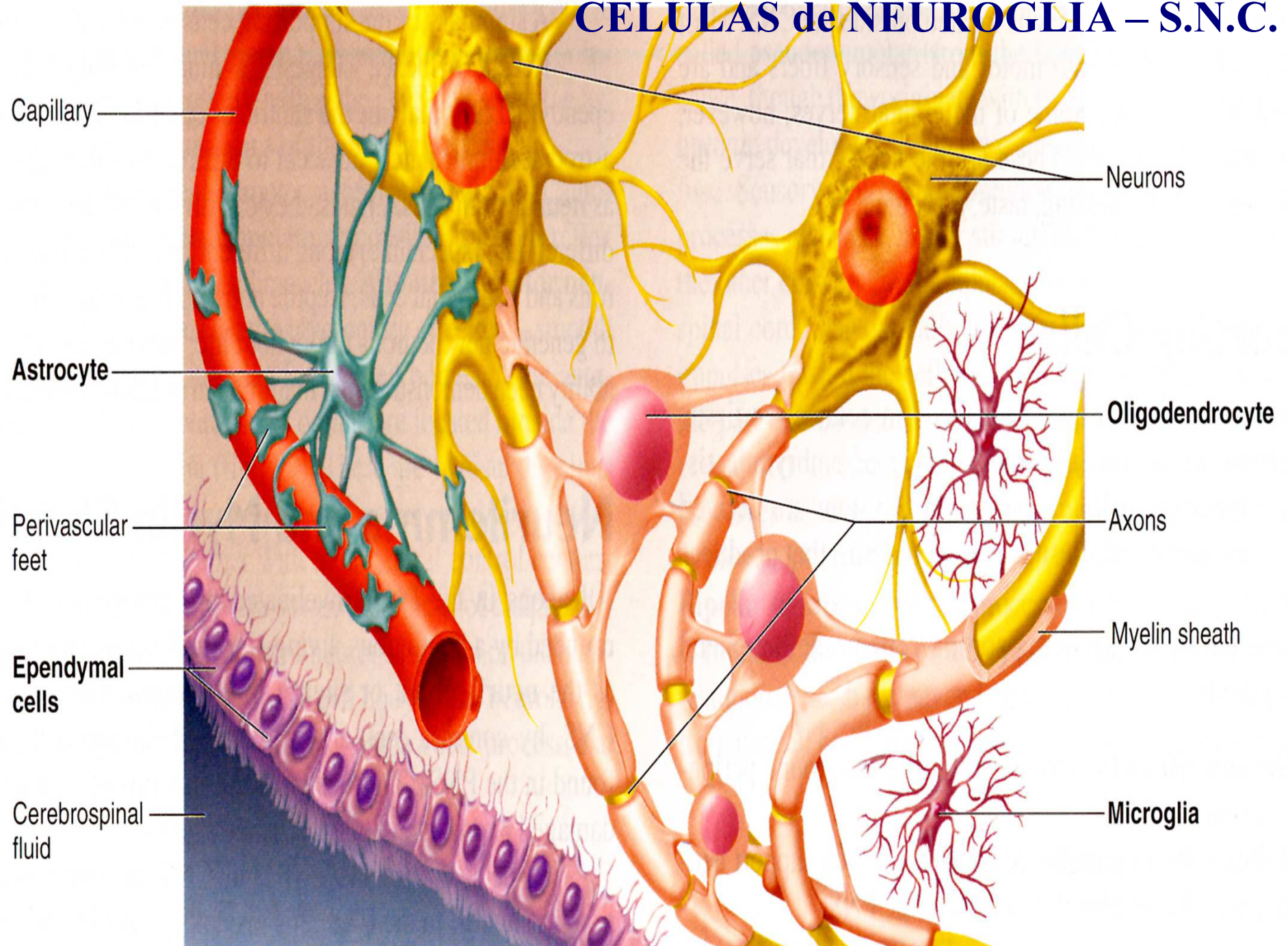


# MIELINIZAÇÃO

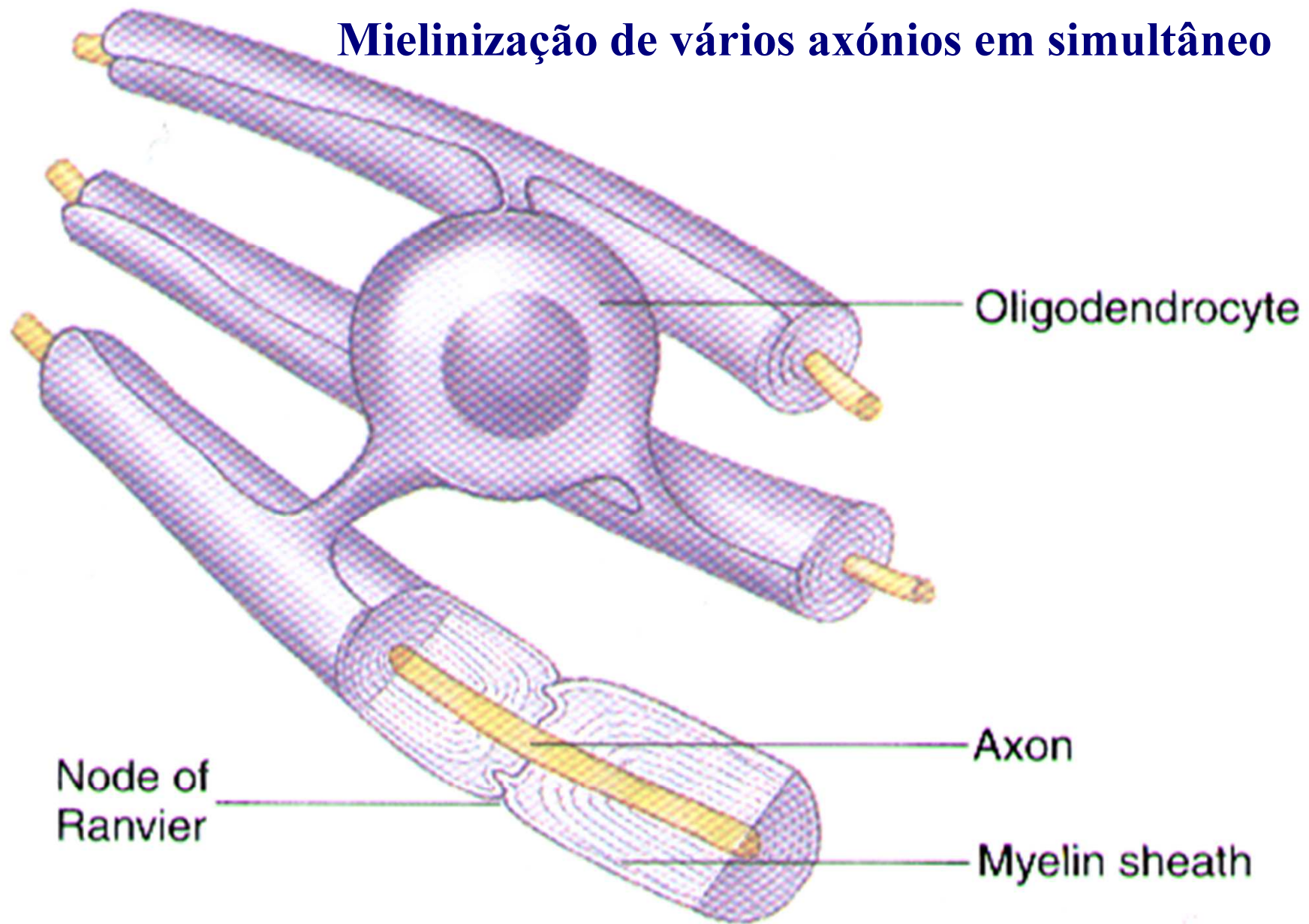




# CÉLULAS de NEUROGLIA – S.N.C.



## Mielinização de vários axónios em simultâneo



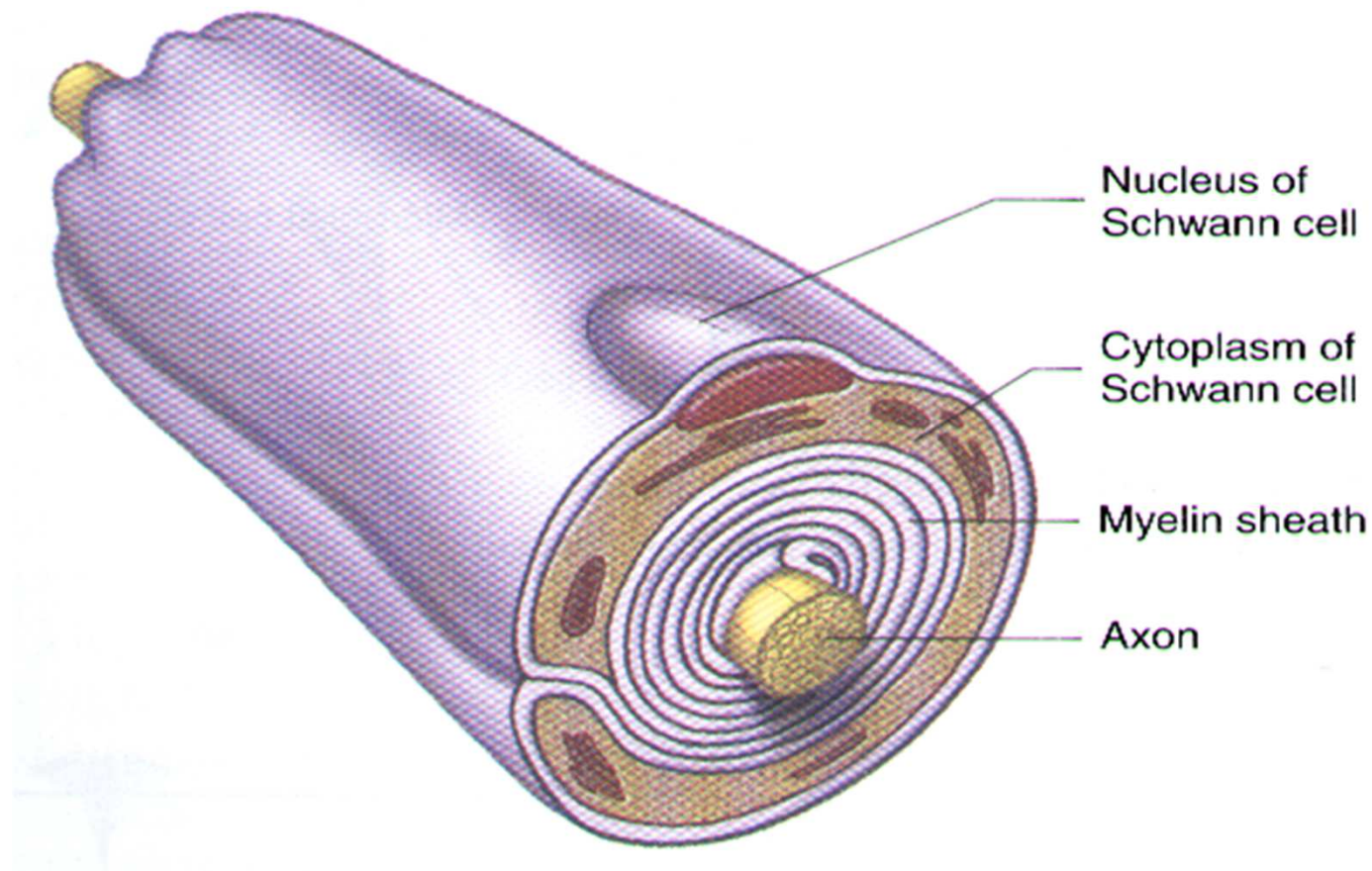
Oligodendrocyte



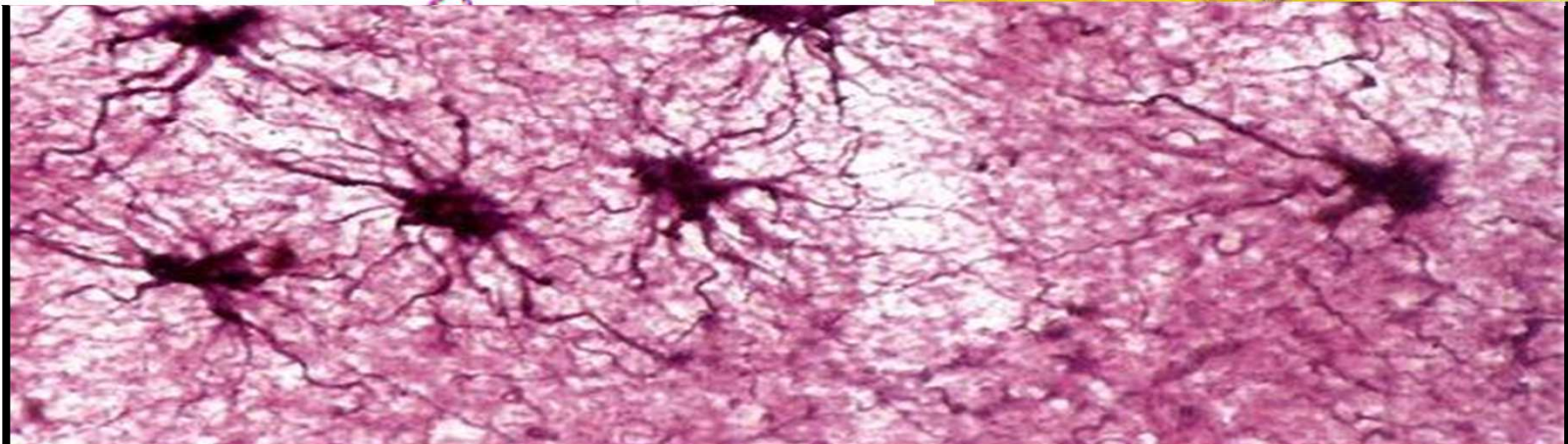
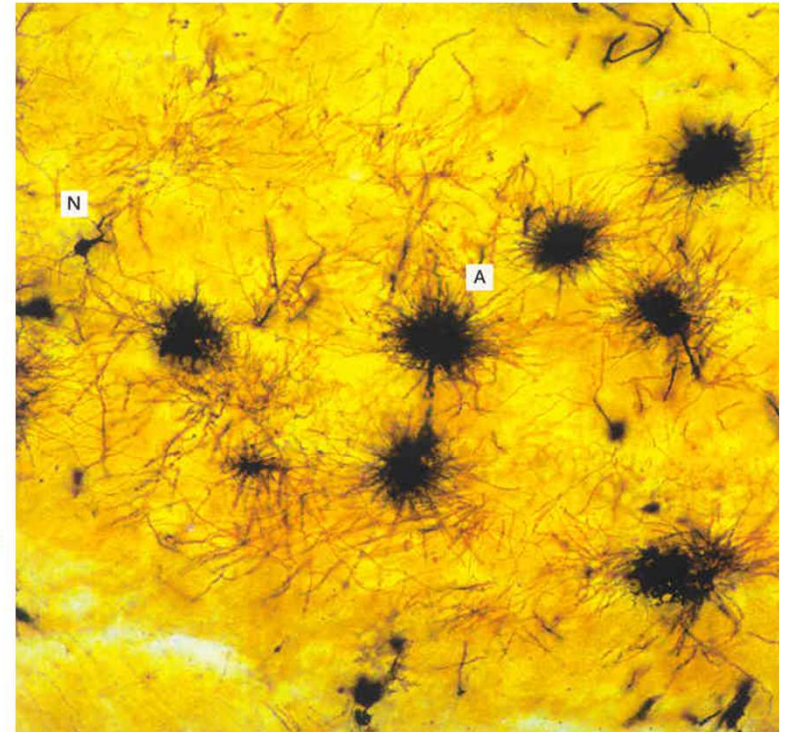
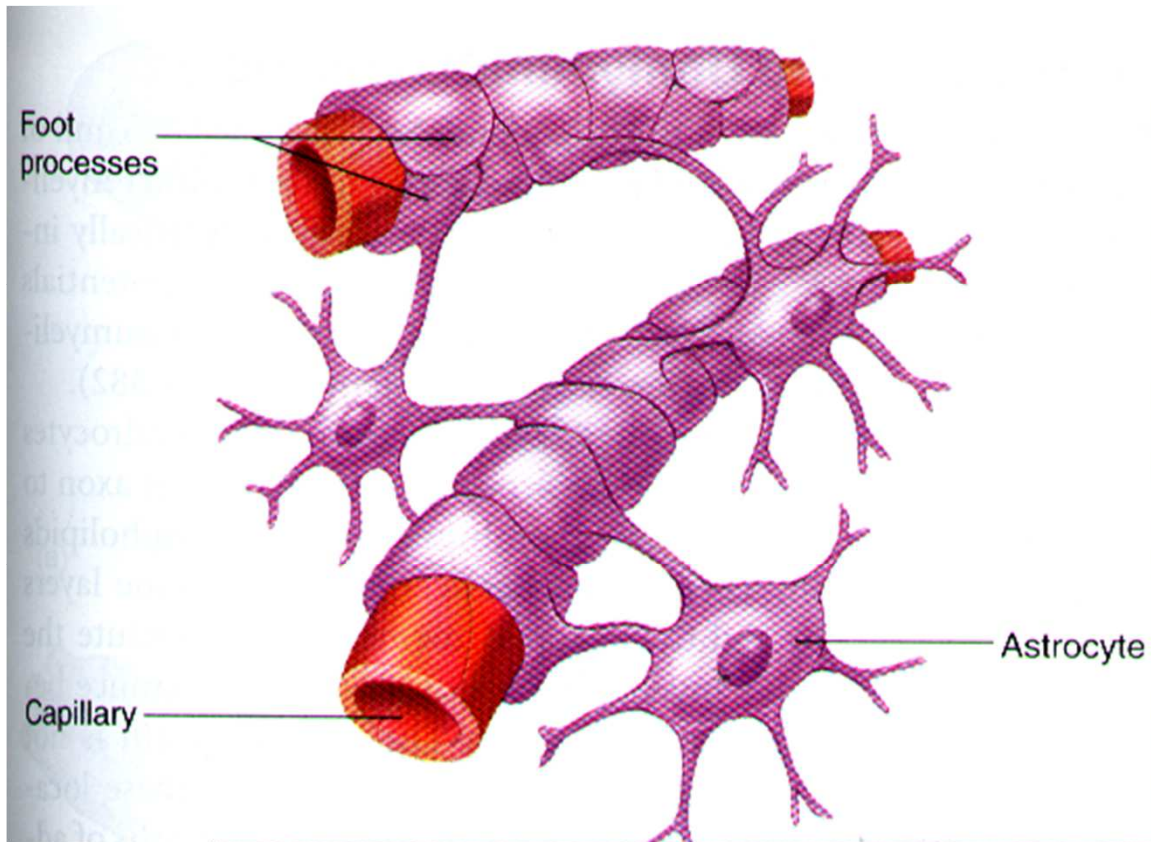
# Células de Glia do SNP

## Células de Schwann

Formam a mielina no S.N.P.



# ASTRÓCITOS

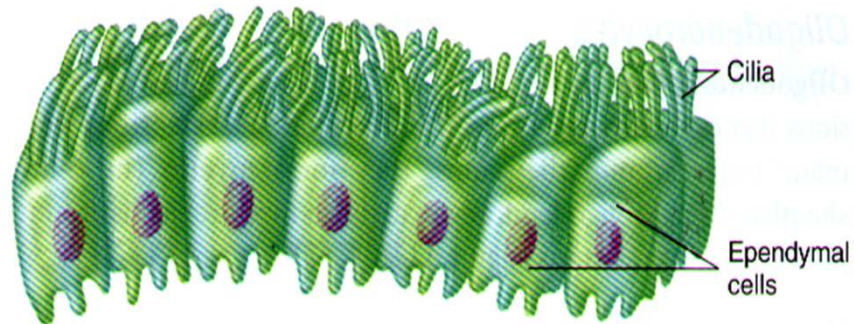




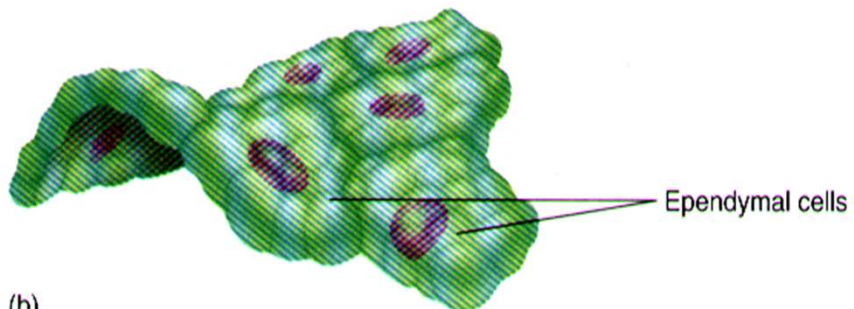
# CÉLULAS EPENDIMÁRIAS

Juntamente com os vasos sanguíneos formam o plexo coróide nos ventrículos cerebrais

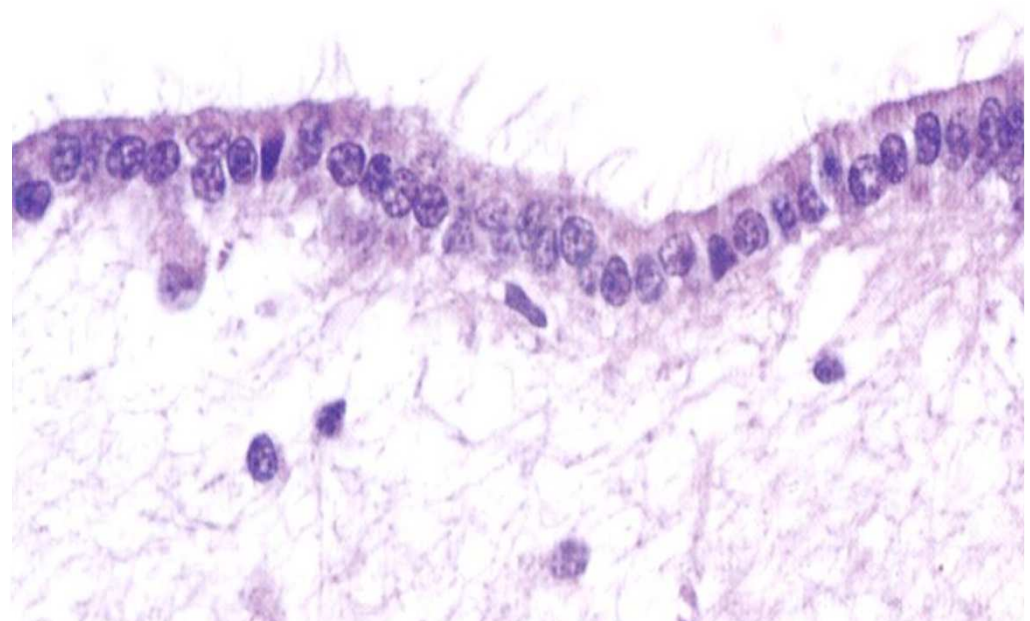
Líquido Cefalorraquidiano (LCR)



(a)



(b)



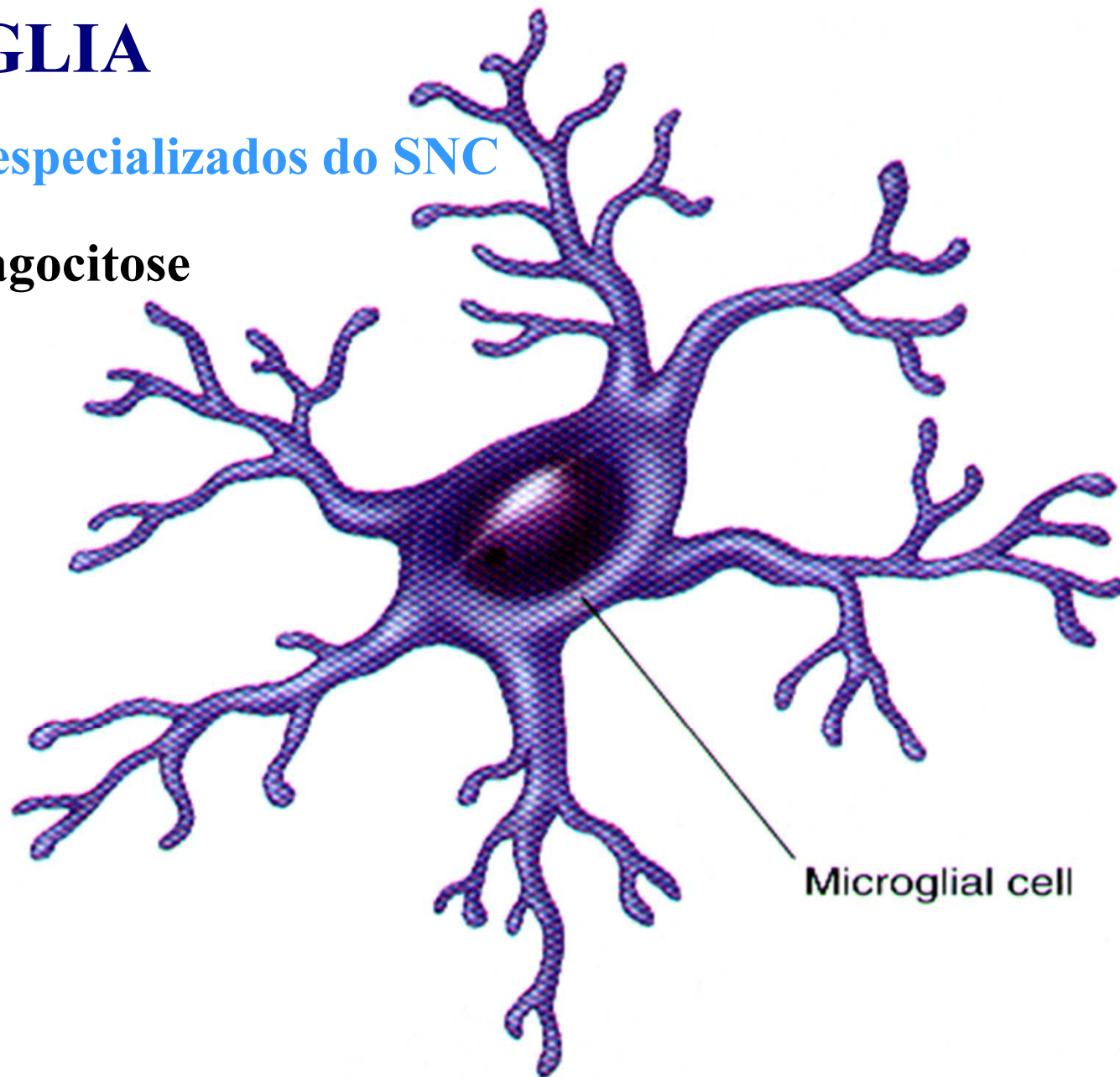


# MICROGLIA

Macrófagos especializados do SNC



**Fagocitose**





## **SISTEMA NERVOSO CENTRAL (SNC)**

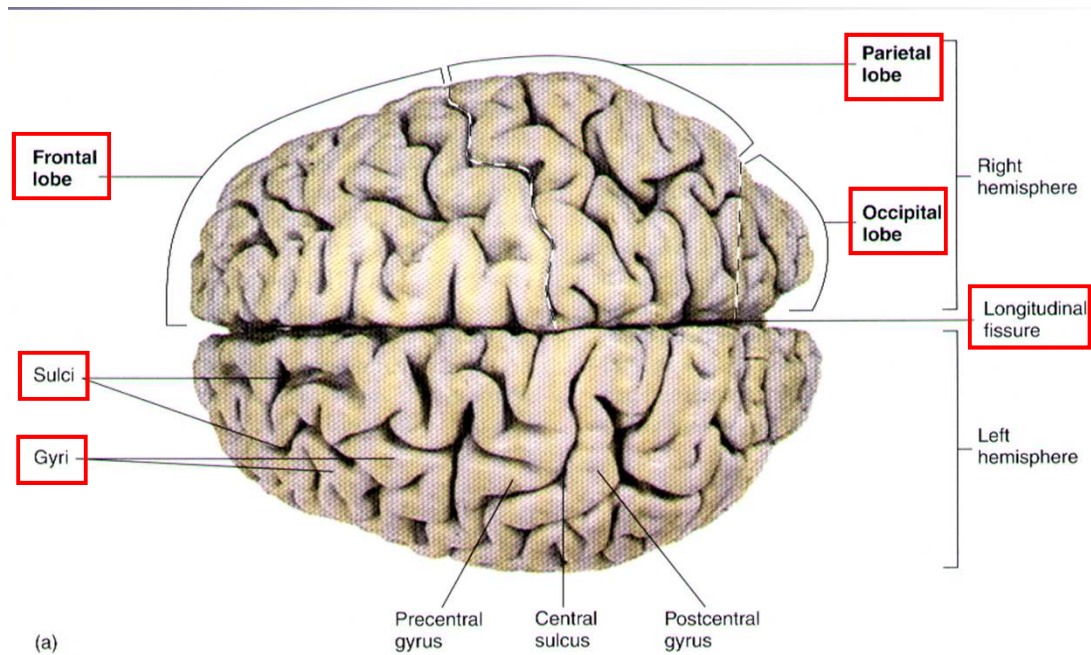
- ▶ **Encéfalo**
- ▶ **Medula Espinal**

## **SISTEMA NERVOSO PERIFÉRICO (SNP)**

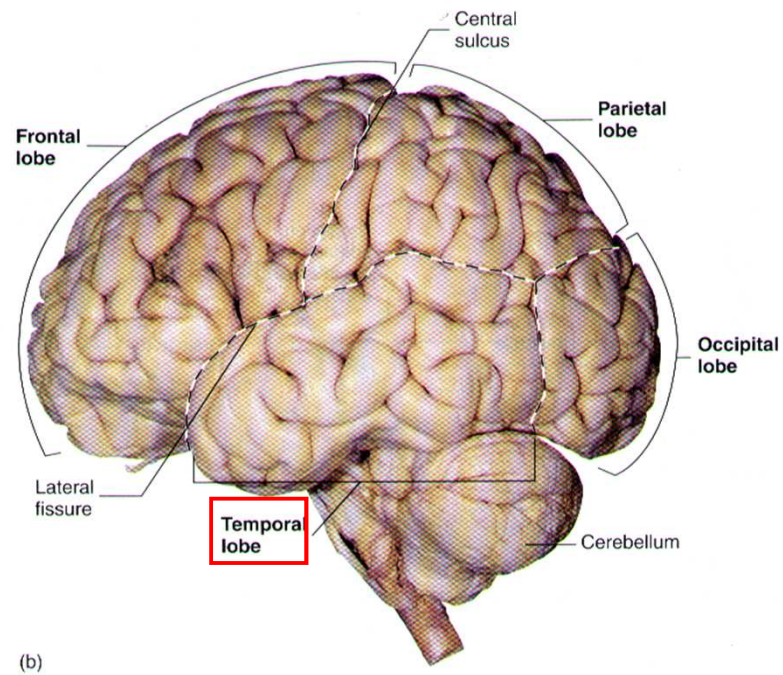
- ▶ **Gânglios nervosos**
- ▶ **Nervos**

|   |                  |
|---|------------------|
| [ | <b>cranianos</b> |
|   | <b>espinais</b>  |
- ▶ **Órgãos dos sentidos**

# CÉREBRO



# ENCÉFALO





# CEREBELO

(H.E.)

SUBST. BRANCA

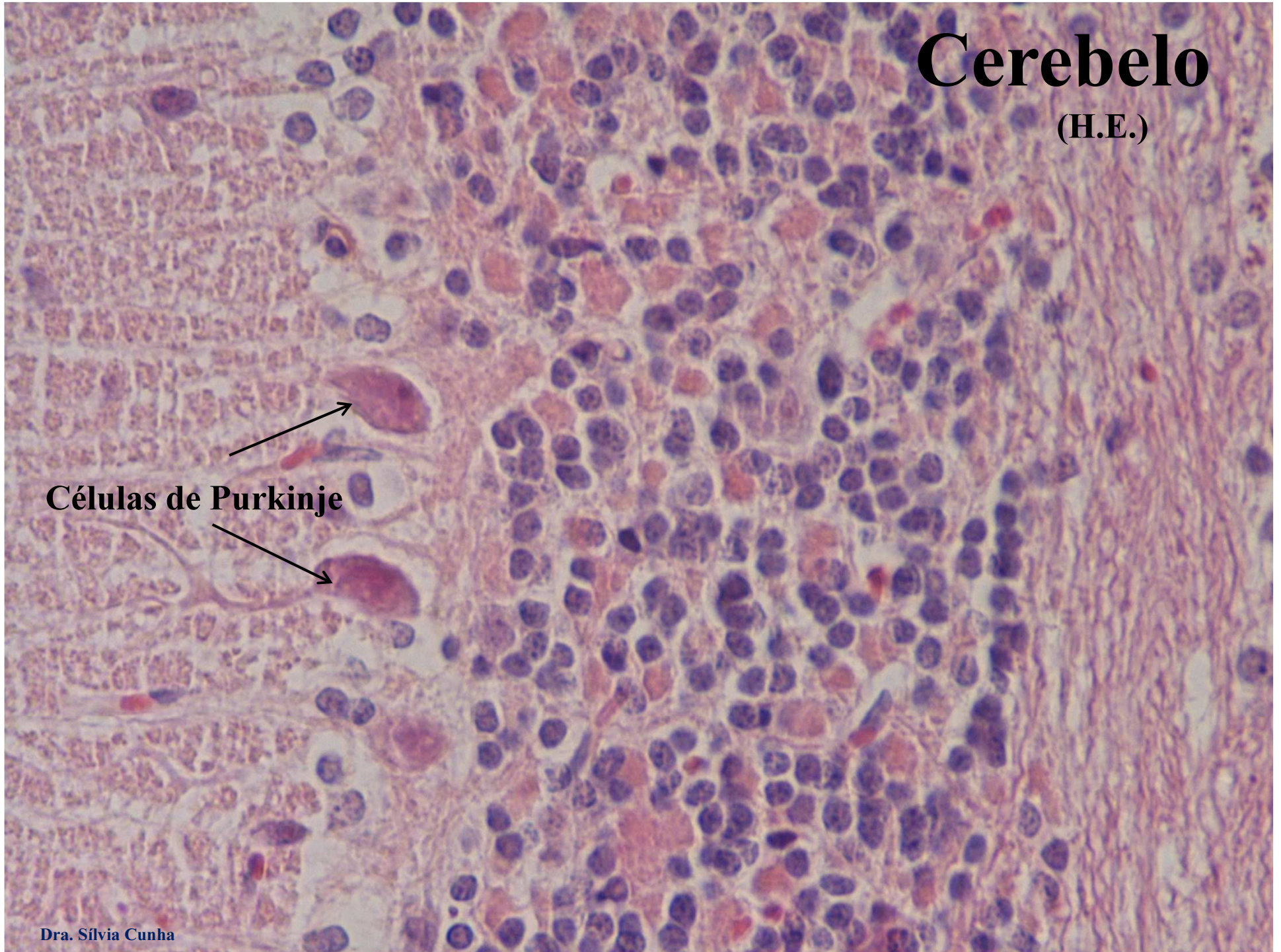
SUBSTÂNCIA CINZENTA



# Cerebello

(H.E.)

Células de Purkinje





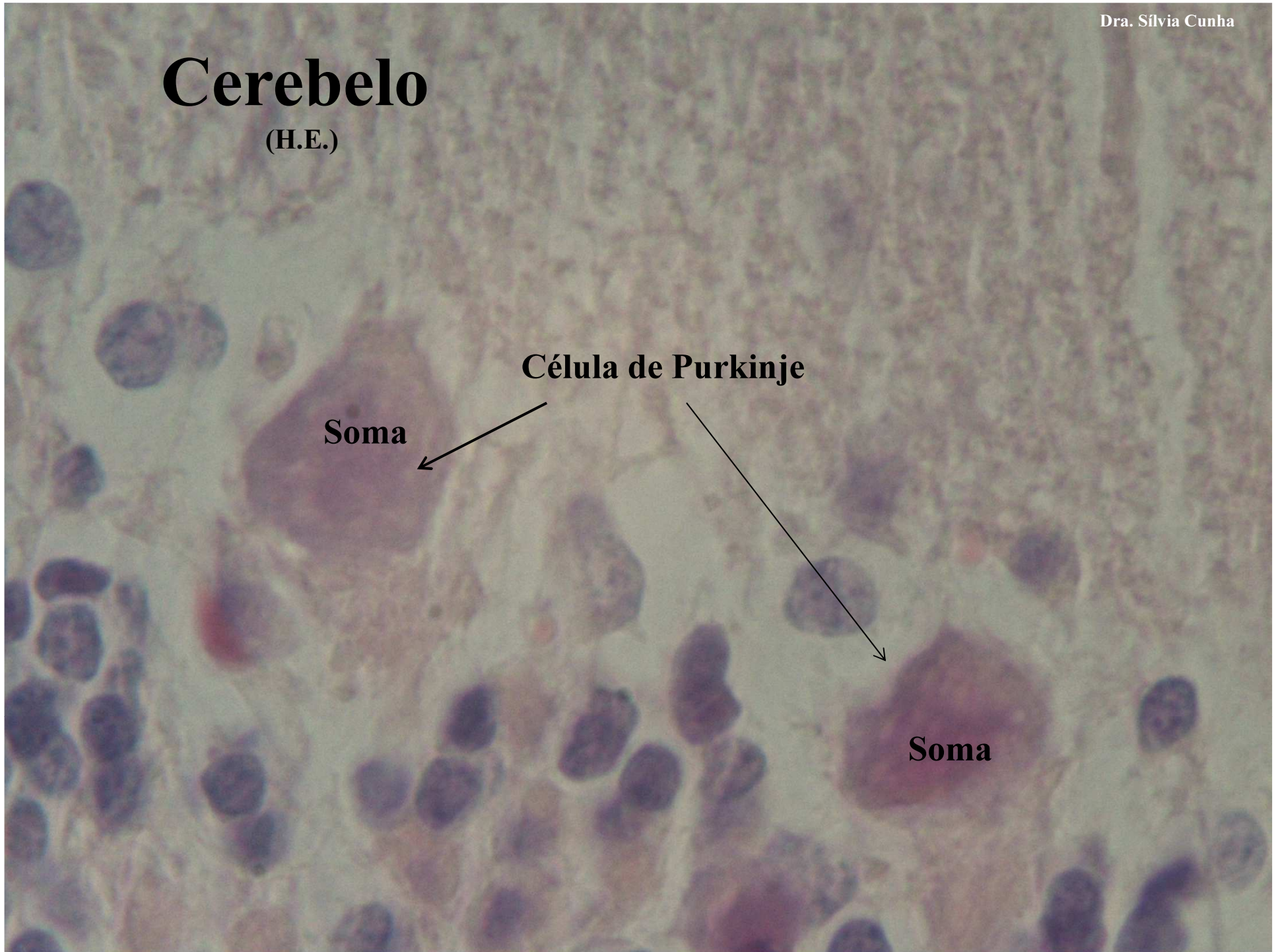
# Cerebello

(H.E.)

Célula de Purkinje

Soma

Soma





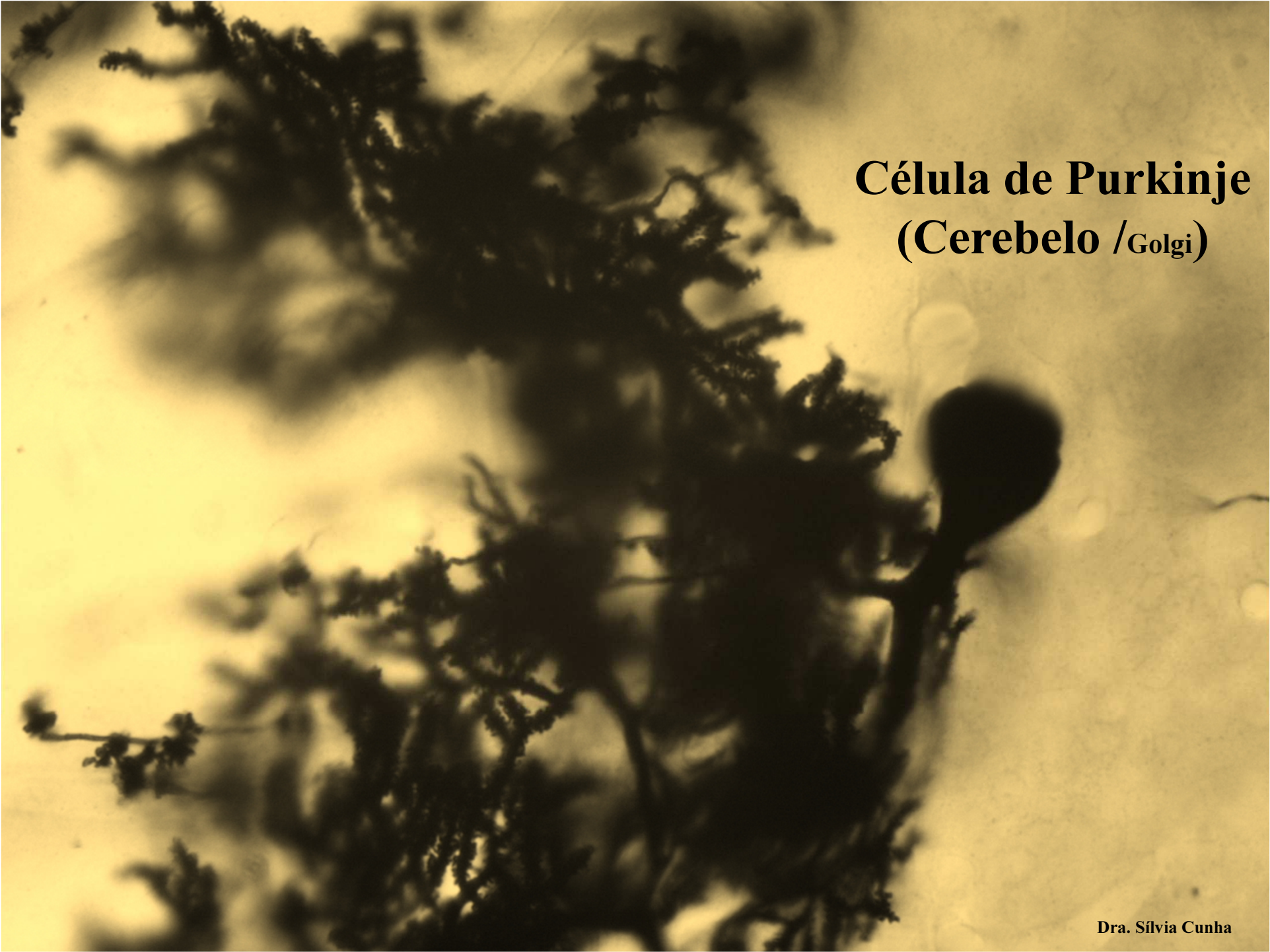
A microscopic image of a cerebellar section. The image shows a dense network of neurons. A prominent white diagonal band, likely the white matter, runs from the bottom left towards the top right. On either side of this band are layers of neurons. In the lower right, a large, dark, spherical cell body with a prominent nucleus is visible, surrounded by a dense network of branching processes. Other smaller, similar cells are scattered throughout the tissue.

# Cerebello

(Golgi)

Célula de Purkinje



A black and white micrograph showing a Golgi-stained Purkinje cell in the cerebellum. The cell body is a large, dark, oval structure on the right. It has a long, thin apical dendrite that branches extensively into a dense, tree-like network of smaller, dark-stained processes on the left. The background is a light, grainy texture.

## **Célula de Purkinje (Cerebelo /Golgi)**



# Grão do Cerebelo





# Córtex Cerebelar

(Golgi)

Dra. Sílvia Cunha

**Grão do Cerebelo**

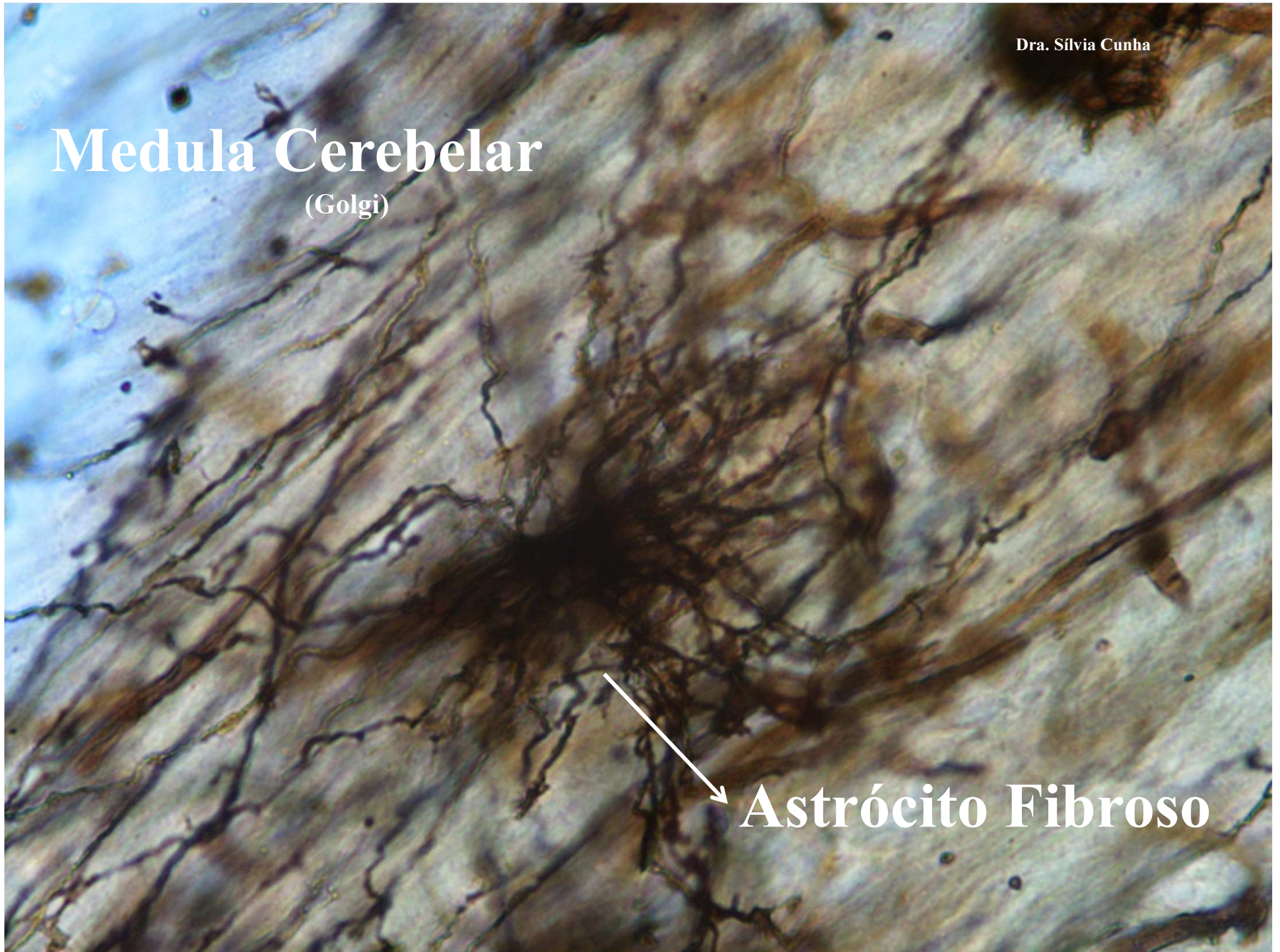




# Medula Cerebelar

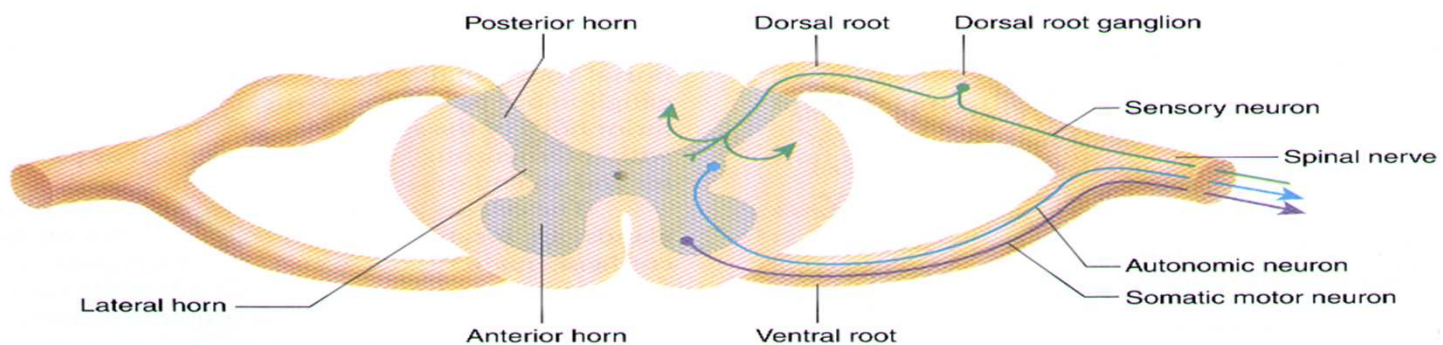
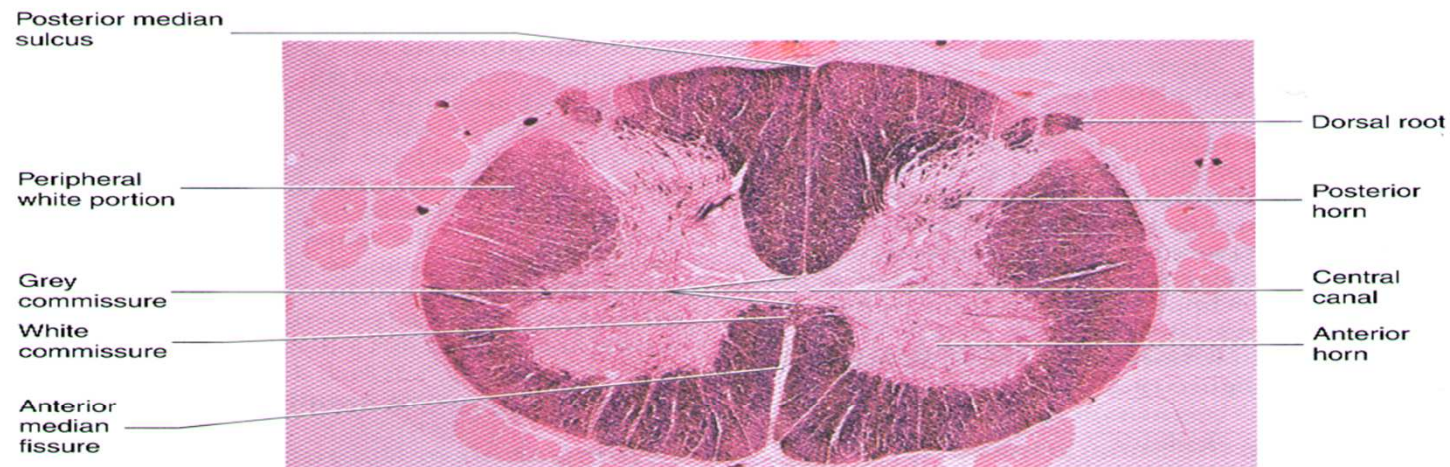
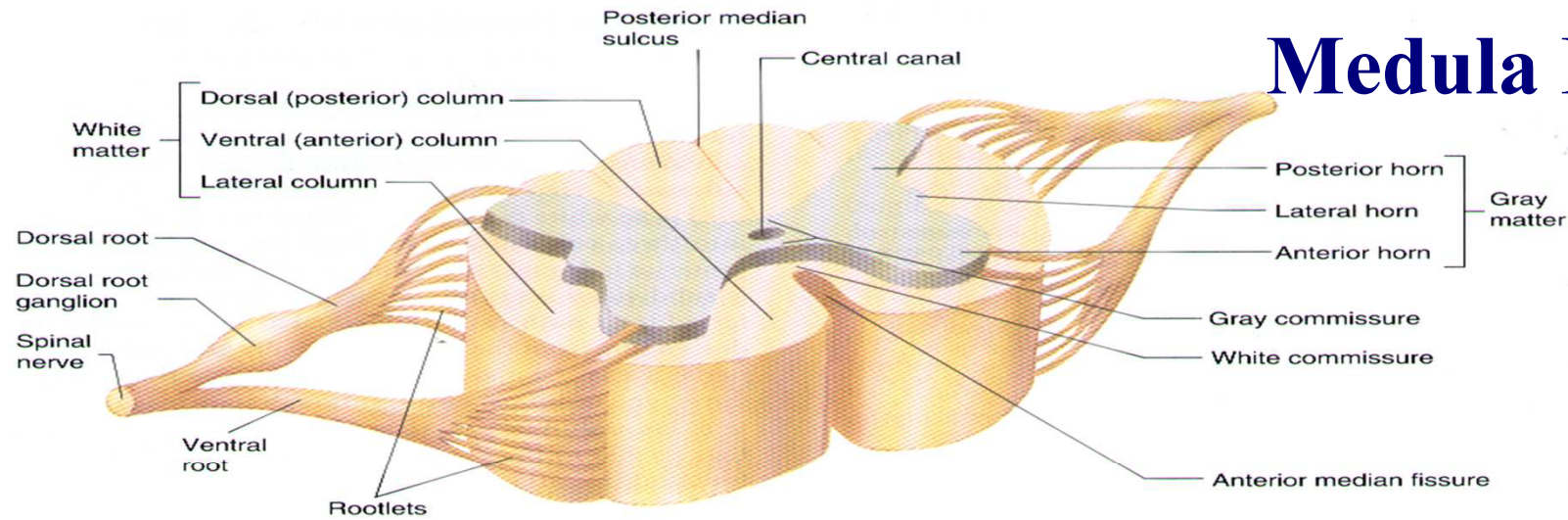
(Golgi)

Astrócito Fibroso





# Medula Espinal





# Medula Espinal (H.E.)

Dra. Sílvia Cunha



# Medula Espinal

## Canal central

Ependimóцитos



# Neurónio motor

(Azul metileno)

Corpúsculos de Nissl

(Manchas basófilas)

Corpo celular

Nucleólo

Núcleo



# Neurónio motor

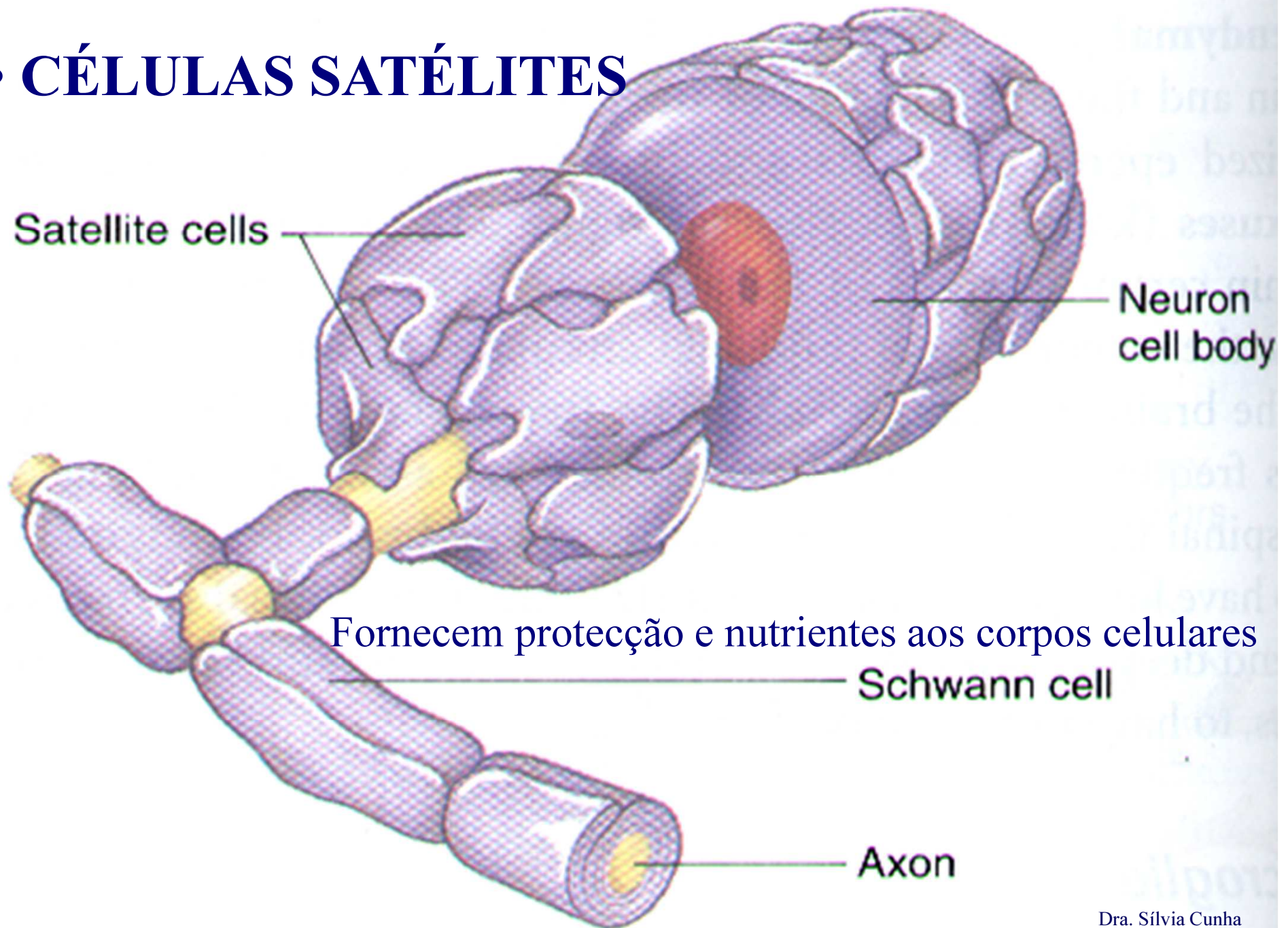
A light micrograph of a motor neuron stained with methylene blue. The neuron is large and multipolar, with a prominent cell body (soma) and several long, tapering processes (dendrites and an axon) extending from it. The cell body is filled with a dense, granular cytoplasm, and a large, dark, oval nucleus is visible within it. The background shows other smaller, less distinct cells.

(Azul metileno)

## Corpúsculos de Nissl

(Manchas basófilas)

# • CÉLULAS SATÉLITES

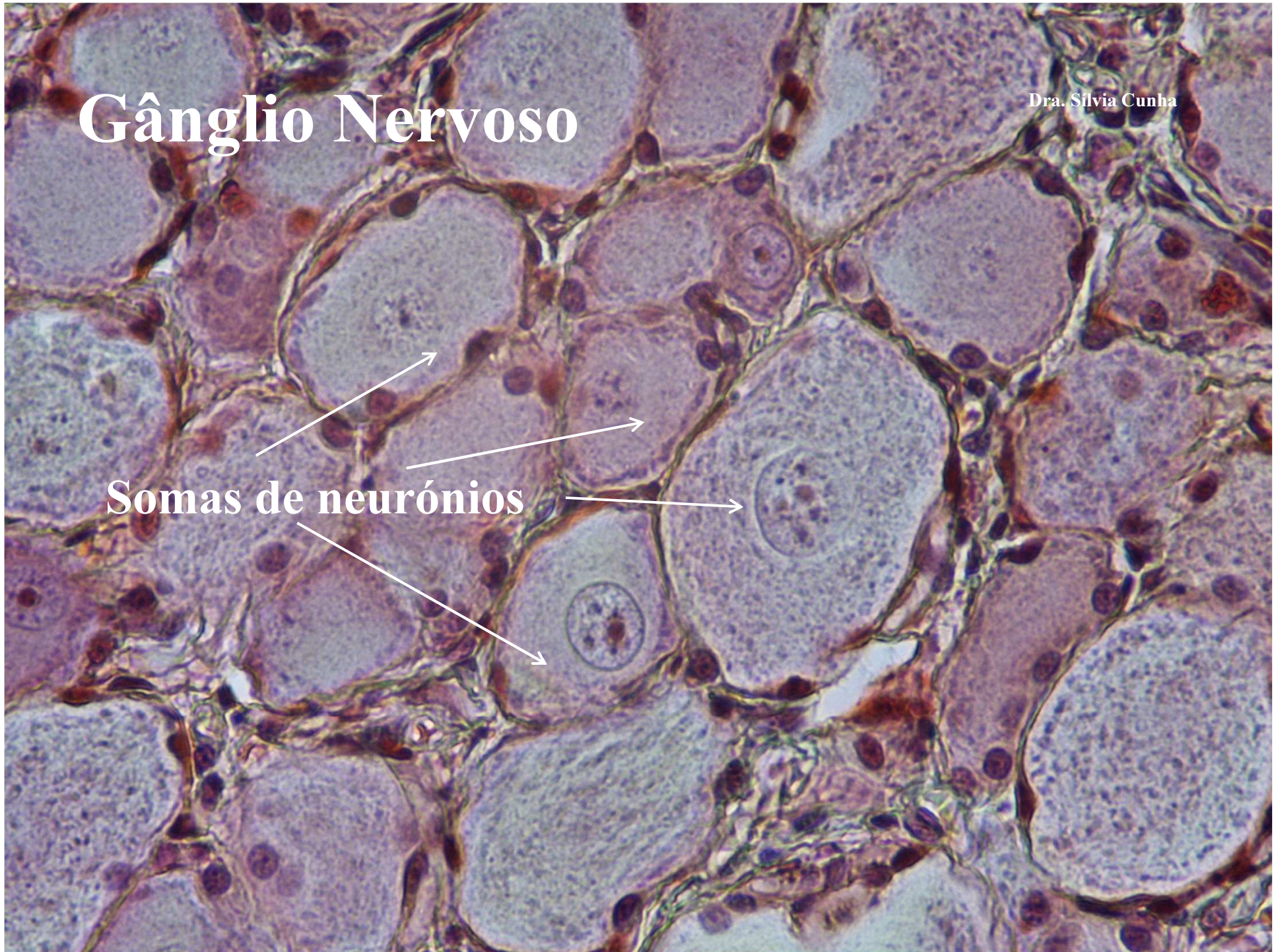




# Gânglio Nervoso

Dra. Sílvia Cunha

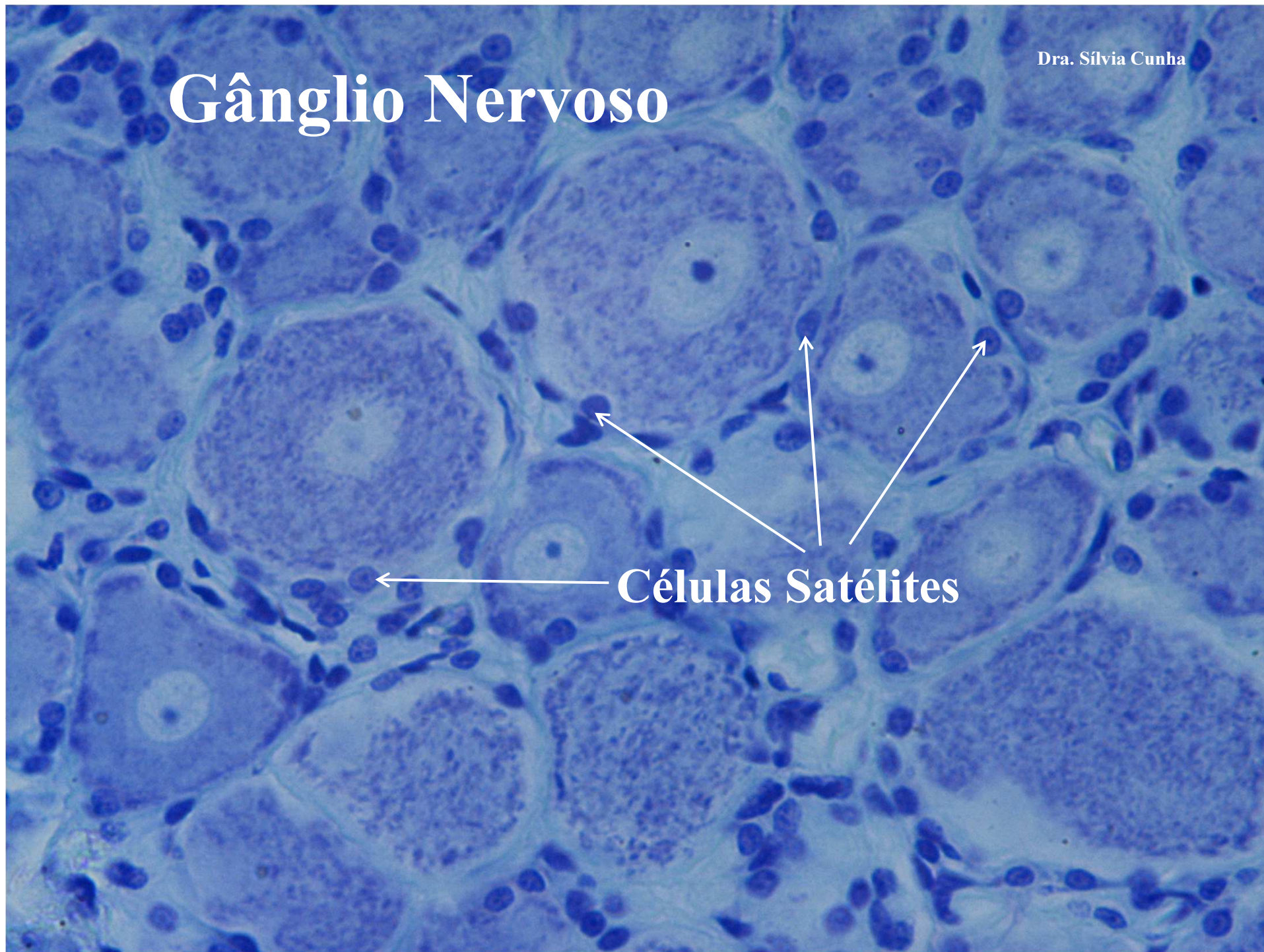
Somas de neurónios





# Gânglio Nervoso

Células Satélites





# NERVO PERIFÉRICO

A high-magnification light micrograph of a peripheral nerve in cross-section. The nerve is densely packed with numerous nerve fibers, which appear as dark, circular or oval structures. These fibers are separated by a lighter, fibrous connective tissue matrix. The overall structure is organized into a regular, repeating pattern of nerve bundles. The image is oriented horizontally, with the nerve fibers running from left to right.

Dra. Sílvia Cunha



# NERVO PERIFÉRICO

AXÓNIOS MIELINIZADOS

